# *TEXAS DEPARTMENT OF INSURANCE*

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**PRODUCT EVALUATION** Effective December 1, 2011
WIN-1495

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **March 2012**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.*

**Series 4650 Vinyl Horizontal Slider Replacement Windows, Non-impact Resistant,** manufactured by:

**MGM Industries**
**287 Freehill Road**
**Hendersonville, Tennessee 37075**
**Telephone: (813) 659-9197**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions, the approved drawings referenced in this evaluation report, and this product evaluation.

## PRODUCT DESCRIPTION

The Series 4650 window is a vinyl horizontal slider window. The vinyl horizontal slider window is installed as a replacement window. The vinyl horizontal slider windows evaluated in this report are non-impact resistant windows. This product evaluation report is for a vinyl horizontal slider replacement window based on the following tested construction:

**General Description:**

| System | Description | Label Rating |
|---|---|---|
| 1 | Series 4650 Vinyl Horizontal Slider Replacement Window; (X/X) | HS-R50 63 x 44 |

**Product Dimensions:**

| System | Overall Size | Sash Sizes |
|---|---|---|
| 1 | 63" x 44" | $30\frac{11}{16}$" x $40\frac{7}{8}$" |

**Glazing Description:**

| System | Glass Construction [1] | Glazing Method [2] |
|---|---|---|
| 1 | IG-1 | GM-1 |

Note: [1] See the "Glass Construction Key" for the glazing construction.
[2] See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**
IG-1: The window contains sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$") annealed glass lites separated by a U-shaped steel spacer system that is embedded in sealant. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Key:**
GM-1: The insulating glass unit is glazed against silicone sealant. A rigid vinyl (PVC) snap-in glazing bead secures the insulating glass unit in place.

**Frame Construction:** The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. A rigid vinyl drop-in roller track is applied to the sill.

**Sash Construction:** The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and welded construction.

**Reinforcement:** All sash members contain custom shaped, formed steel reinforcement. The reinforcement extends the length of the members.

**Hardware:**
- Locking metal cam lock and keeper; Two (2) required; Located on the lock stile with mating keepers at the exterior stile.
- Dual metal roller with a plastic housing; Four (4) required; Located at the bottom corners of each sash.

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**MGM-1**); the product name: **Series 4600 HS 2SS**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05.

## LIMITATIONS

**Design pressures:**

| System | Maximum Width (in.) | Maximum Height (in.) | Design Pressures (psf) |
|---|---|---|---|
| 1 | 63 | 44 | $\pm$ 50 |

**Impact Resistance:** These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Smaller Assemblies:** Window assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

**General:** The window assembly shall be installed in accordance with the manufacturer's installation instructions and the design drawings referenced in this evaluation report. Detailed installation instructions and drawings are available from the manufacturer.

**Design Drawings:** The window shall be installed in accordance with Drawing No. TX-4130, "Series 4650 Extruded Vinyl Horizontal Sliding Window 'Non-Impact'," sheets 1 through 3 of 3, dated July 5, 2011,

signed, sealed, and dated July 6, 2011 by Lyndon F. Schmidt, PE. The stated drawings will be referred to as the approved drawings in this evaluation report.

**Wall Framing:** The windows shall be secured to minimum Spruce-Pine-Fir dimension lumber.

**Installation:** The windows shall be secured to the wall framing as specified on the approved drawings. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

**Note:** The manufacturer's installation instructions and the approved design drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.